

## REPORT DOCUMENTATION PAGE

2

AD-A206 812

DTIC

SELECTED

APR 13 1989

2b. DECLASSIFICATION / DOWNGRADING SCHEDULE

4. PERFORMING ORGANIZATION REPORT NUMBER(S)

1b. RESTRICTIVE MARKINGS

3. DISTRIBUTION / AVAILABILITY OF REPORT  
Approved for public release;  
distribution is unlimited.

5. MONITORING ORGANIZATION REPORT NUMBER(S)

6a. NAME OF PERFORMING ORGANIZATION

Univ of Iowa

6b. OFFICE SYMBOL  
(If applicable)

7a. NAME OF MONITORING ORGANIZATION

AFOSR/NP

6c. ADDRESS (City, State, and ZIP Code)

Iowa City, IA 52242

7b. ADDRESS (City, State, and ZIP Code)

Building 410, Bolling AFB DC  
20332-64488a. NAME OF FUNDING / SPONSORING  
ORGANIZATION

AFOSR

8b. OFFICE SYMBOL  
(If applicable)

NP

9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER

AFOSR-87-0319

8c. ADDRESS (City, State, and ZIP Code)

Building 410, Bolling AFB DC  
20332-6448

10. SOURCE OF FUNDING NUMBERS

PROGRAM  
ELEMENT NO

61102F

PROJECT  
NO.

2301

TASK  
NO.

A1

WORK UNIT  
ACCESSION NO

11. TITLE (Include Security Classification)

(U) PARTIAL SUPPORT OF THE THIRD INTERNATIONAL LASER SCIENCE

CONFERENCE

12. PERSONAL AUTHOR(S)

13a. TYPE OF REPORT  
FINAL13b. TIME COVERED  
FROM 15 Jul 87 TO 14 Jul 88

14. DATE OF REPORT (Year, Month, Day)

Dec 88

15. PAGE COUNT

1

16. SUPPLEMENTARY NOTATION

17. COSATI CODES

FIELD	GROUP	SUB-GROUP
	20.06	

18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)

19. ABSTRACT (Continue on reverse if necessary and identify by block number)

The third international conference was held in Atlantic City, NJ 1-4 Nov 1987.

20. DISTRIBUTION / AVAILABILITY OF ABSTRACT

X ☐ UNCLASSIFIED/UNLIMITED ☐ SAME AS RPT. ☐ DTIC USERS

21. ABSTRACT SECURITY CLASSIFICATION

UNCLASSIFIED

22a. NAME OF RESPONSIBLE INDIVIDUAL

H. R. SCHLOSSBERG

22b. TELEPHONE (Include Area Code)

(202) 767-4906

22c. OFFICE SYMBOL

AFOSR/NP

DD FORM 1473, 84 MAR

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All other editions are obsolete.

SECURITY CLASSIFICATION OF THIS PAGE

UNCLASSIFIED

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AFOSR-TR. 89-0413

Final Technical Report


for

Air Force Office of Scientific Research

AFOSR-87-0319, "Partial Support of the  
Third International Laser Science Conference

for

July 15, 1987 - July 14, 1988

  
William C. Stwalley, Principal Investigator  
Professor of Chemistry and Physics and  
Director of the Center for Laser Science and Engineering  
University of Iowa, Iowa City, Iowa 52242  
(319) 335-1299

The annual International Laser Science Conferences have been established to survey the core laser science areas including lasers and their properties, spectroscopy, laser-induced processes, and a selection of laser applications. This meeting is a Topical Conference of the American Physical Society (APS) and is also the annual meeting of the APS Topical Group on Laser Science. Earlier ILS Conferences were held in Dallas in 1985 (ILS-I) and in Seattle in 1986 (ILS-II). ILS-III was held in Atlantic City, New Jersey, November 1-4, 1987, with the co-sponsorship of the Optical Society of America.

ILS-III was characterized by an outstanding technical content, which at the same time maintained an open APS style which encouraged active participation from a broad range of laser scientists. The ILS-III Conference began auspiciously with three opening keynote lectures by the 1986 Nobel Laureates in Chemistry: Dudley R. Herschbach (Harvard University), Yuan T. Lee (University of California at Berkeley), and John C. Polanyi (University of Toronto). These scientists were honored by the Royal Swedish Academy of Sciences for their research in chemical physics, specifically reaction dynamics, which is basic to a detailed understanding of chemical reactions.

There were many other significant contributions, including 7 plenary papers, 69 invited papers and 245 contributed papers (both oral and poster) that formed the framework of the ILS-III Conference. A total of 406 people attended the Conference. We also note the following special events:

- An evening Panel Discussion Meeting entitled, "Dye Lasers: The State-of-the-Art", organized by Michael G. Littman, Princeton University;
- An enlightening post-Banquet speech by John N. Howard, Editor of Applied Optics, on "The Scientific Contributions of Lord Rayleigh".

Plenary lectures were delivered at the beginning of each half-day session (typically with five parallel sessions). The plenary lecturers who spoke at ILS-III were R. N. Zare, J. P. Taran, R. L. Byer, B. P. Stoicheff, G. W. Flynn and R. C. Powell.

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DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
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Distribution /	
Availability Codes	
Dist	Avail and/or Special
A-1	